

SEQUENCE LISTING

(1) GENERAL INFORMATION

- (i) APPLICANT: Lal, Preeti
Corley, Neil C.
- (ii) TITLE OF THE INVENTION: HUMAN SHORT CHAIN DEHYDROGENASE
- (iii) NUMBER OF SEQUENCES: 3
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Incyte Pharmaceuticals, Inc.
 - (B) STREET: 3174 Porter Dr.
 - (C) CITY: Palo Alto
 - (D) STATE: CA
 - (E) COUNTRY: USA
 - (F) ZIP: 94304
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette
 - (B) COMPUTER: IBM Compatible
 - (C) OPERATING SYSTEM: DOS
 - (D) SOFTWARE: FastSEQ for Windows Version 2.0
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: To Be Assigned
 - (B) FILING DATE: Filed Herewith
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Billings, Lucy J.
 - (B) REGISTRATION NUMBER: 36,749
 - (C) REFERENCE/DOCKET NUMBER: PF-0475 US
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 650-855-0555
 - (B) TELEFAX: 650-845-4166
 - (C) TELEX:

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 313 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: PROSNOT01
 - (B) CLONE: 356351
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Met Ala Ala Pro Met Asn Gly Gln Val Cys Val Val Thr Gly Ala Ser
 1 5 10 15
 Arg Gly Ile Gly Arg Gly Ile Ala Leu Gln Leu Cys Lys Ala Gly Ala
 20 25 30
 Thr Val Tyr Ile Thr Gly Arg His Leu Asp Thr Leu Arg Val Val Ala
 35 40 45
 Gln Glu Ala Gln Ser Leu Gly Gly Gln Cys Val Pro Val Val Cys Asp
 50 55 60
 Ser Ser Gln Glu Ser Glu Val Arg Thr Leu Phe Glu Gln Val Asp Arg
 65 70 75 80
 Glu Gln Gln Gly Arg Leu Asp Val Leu Val Asn Asn Ala Tyr Ala Gly
 85 90 95
 Val Gln Thr Ile Leu Asn Thr Arg Asn Lys Ala Phe Trp Glu Thr Pro
 100 105 110
 Ala Ser Met Trp Asp Asp Ile Asn Asn Val Gly Leu Arg Gly His Tyr
 115 120 125
 Phe Cys Ser Val Tyr Gly Ala Arg Leu Met Val Pro Ala Gly Gln Gly
 130 135 140
 Leu Ile Val Val Ile Ser Ser Pro Gly Ser Leu Gln Tyr Met Phe Asn
 145 150 155 160
 Val Pro Tyr Gly Val Gly Lys Ala Ala Cys Asp Lys Leu Ala Ala Asp
 165 170 175
 Cys Ala His Glu Leu Arg Arg His Gly Val Ser Cys Val Ser Leu Trp
 180 185 190
 Pro Gly Ile Val Gln Thr Glu Leu Lys Glu His Met Ala Lys Glu
 195 200 205
 Glu Val Leu Gln Asp Pro Val Leu Lys Gln Phe Lys Ser Ala Phe Ser
 210 215 220
 Ser Ala Glu Thr Thr Glu Leu Ser Gly Lys Cys Val Val Ala Leu Ala
 225 230 235 240
 Thr Asp Pro Asn Ile Leu Ser Leu Ser Gly Lys Val Leu Pro Ser Cys
 245 250 255
 Asp Leu Ala Arg Arg Tyr Gly Leu Arg Asp Val Asp Gly Arg Pro Val
 260 265 270
 Gln Asp Tyr Leu Ser Leu Ser Ser Val Leu Ser His Val Ser Gly Leu
 275 280 285
 Gly Trp Leu Ala Ser Tyr Leu Pro Ser Phe Leu Arg Val Pro Lys Trp
 290 295 300
 Ile Ile Ala Leu Tyr Thr Ser Lys Phe
 305 310

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1387 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (A) LIBRARY: PROSNOT01
- (B) CLONE: 356351

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CTAACTTTGG CCTGGGACTC TGCCCCCTCTA CCTCAGCACA GAATCGCCCC GGGTCCTACT 60
 ACAGAATCAA TCCTTGAACA CTGCCTCCAC GTCGCCGGCT CAATCTGGGC GAGAACCCAG 120
 ACTTCCACCG CAGCCCCGCA ATCTGCAGAC CTCAGCGGCA GCGCAGGTGG CAGACCTGCC 180
 TCCTTTGCCT GTGAGTCATG GCAGCTCCCA TGAATGGCCA AGTGTGTGTG GTGACTGGTG 240

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CCTCCAGGGG TATTGGCCGT GGCATTGCCT TGCAGCTCTG CAAAGCAGGC GCCACAGTTT 300
ACAACACTGG CCGCCATCTG GACACCCTTC GCGTTGTTGC TCAGGAGGCA CAATCCCTCG 360
GGGGCCAATG TGTGCCTGTG GTGTGCGATT CAAGCCAGGA GAGTGAAGTG CGAACGCTGT 420
TTGAGCAAGT GGATCGGGAA CAGCAAGGGC GTCTAGATGT GCTGGTCAAC AATGCTTATG 480
CAGGGGTCCA GACGATCCTG AACACCAGGA ATAAGGCATT CTGGGAAACC CCTGCCTCCA 540
TGTGGGATGA TATCAACAAC GTCGGACTCA GAGGCCACTA CTTTGTGCTCA GTGTATGGGG 600
CACGGCTGAT GGTACCAGCT GGCCAGGGGC TCATCGTGGT CATCTCCTCC CCAGGAAGCC 660
TGCAGTATAT GTTCAATGTC CCCTATGGTG TGGGCAAAGC TGCCTGTGAC AAGCTGGCTG 720
CTGACTGCAG CCACGAGCTG CGGCGCCATG GGGTCAGCTG TGTGTCTCTG TGGCCGGGGA 780
TTGTGTGAGC AGAAGTGTG AAGGAGCATA TGGCAAAGGA GGAGGTCCTG CAGGATCCTG 840
TGTTGAAGCA GTTCAAATCA GCCTTCTCAT CTGCAGAAAC CACAGAATTG AGTGGCAAAT 900
GTGTGGTGGC TTTGGCAACA GATCCCAATA TCCTGAGCCT GAGTGGTAAG GTGCTGCCAT 960
CCTGTGACCT TGCTCGACGC TATGGCCTTC GGGATGTGGA CGGCCGCCCC GTCCAAGACT 1020
ATTTGTCTTT GAGCTCTGTT CTCTCACACG TGTCCGGCCT GGGCTGGCTG GCCTCCTACC 1080
TGCCCTCCTT CCTCCGTGTG CCAAGTGGGA TTATTGCCCT CTACACTAGC AAGTTCTAAC 1140
CCTCCTGGTC TGACACTACG TCTCTGCTTG TCTTCTCATT TGGACTTGGT GGTTTCGTCT 1200
GTCTCAGTGA AACAGCAGCC TTTCTTGTTC ACCCATACCC TTGATATGAA GAGAAGCCCT 1260
CTGCTGTGTG TCCGTGGTGA GTTCTGGGGT GCGCCTAGGT CCCTTCTTTG TGCCTTGGTT 1320
TTCCTTGTC TTCTTTTAC TTTTGCCTT AGTATTGAAA AATGCTCTTG GAGCTAATAA 1380
AAGTCTA 1387

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(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (A) LIBRARY: GenBank
- (B) CLONE: 2315796

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

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Met Gly Val Ile Leu Gln Asp Gln Val Ala Leu Val Thr Gly Ala Ser
 1           5           10           15
Arg Gly Ile Gly Arg Gly Ile Ala Leu Gln Leu Gly Glu Ala Gly Ala
 20           25           30
Thr Val Tyr Ile Thr Gly Arg Arg Pro Glu Leu Ser Asp Asn Phe Arg
 35           40           45
Leu Gly Leu Pro Ser Leu Asp Tyr Val Ala Lys Glu Ile Thr Ser Arg
 50           55           60
Gly Gly Lys Gly Ile Ala Leu Tyr Val Asp His Ser Asn Met Thr Glu
 65           70           75           80
Val Lys Phe Leu Phe Glu Lys Ile Lys Glu Asp Glu Glu Gly Lys Leu
 85           90           95
Asp Ile Leu Val Asn Asn Val Tyr Asn Ser Leu Gly Lys Ala Thr Glu
100          105          110
Met Ile Gly Lys Thr Phe Phe Asp Gln Asp Pro Ser Phe Trp Asp Asp
115          120          125
Ile Asn Gly Val Gly Leu Arg Asn His Tyr Tyr Cys Ser Val Tyr Ala
130          135          140
Ala Arg Met Met Val Glu Arg Arg Lys Gly Leu Ile Val Asn Val Gly
145          150          155          160
Ser Leu Gly Gly Leu Lys Tyr Val Phe Asn Val Ala Tyr Gly Ala Gly
165          170          175
Lys Glu Ala Leu Ala Arg Met Ser Thr Asp Met Ala Val Glu Leu Asn
180          185          190

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SECRET